

## WHAT IS CLAIMED IS:

1. A vehicular headlamp used for a vehicle, comprising:
  - an infrared light source for generating red light and infrared light;
  - a visible light source for generating visible light, of which wavelength is different from that of said red light;
  - an optical system for emitting said red light and visible light towards a substantially same emission area in front of said vehicle; and
  - a lighting circuit for turning on said infrared light and visible light sources with strength in order that chromaticity in said emission area based on said red light and visible light can correspond to white light within a predetermined range in chromaticity coordinates.
2. A vehicular headlamp as claimed in claim 1, wherein said infrared light source comprises a semiconductor infrared light emitting element for generating said red light and infrared light, and
  - said visible light source comprises a semiconductor white light emitting source for generating said white light.
3. A vehicular headlamp as claimed in claim 1, wherein said lighting circuit turns on said infrared light and visible light sources with strength in order that an X-coordinate of said chromaticity in said emission area can be within a range of 0.450 to 0.500 and a Y-coordinate thereof can be within a range of 0.380 to 0.440.
4. A vehicular headlamp as claimed in claim 1, wherein said

lighting circuit turns off said infrared light source, if speed of said vehicle is lower than a predetermined level.